

## Beclaration and Power of Attorney

As a below-named inventor	, l	hereby	declare	that:
---------------------------	-----	--------	---------	-------

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

GANGLIOSIDE-KLH CONJUGATE VACCINES WITH QS-21

the specificatio (check one)	of which	
	is attached hereto.	
	x was filed on January 21, 1994	as
	Application Serial No. PCT/US94/00757 and entered the No stage as U.S. Serial No. 08/196, and was amended on July 21, 1995  (if applicable)	ational 154 
1 /		ahawa -
identified specto above.	that I have reviewed and understand the contents of the a cation, including the claims, as amended by any amendment re	ferred
identified specto above.	ication, including the claims, as amended by any amendment related to disclose information of which I am aware which is mail ion of this application in accordance with Title 37, Code of F	ferred iterial
identified specto above.  I acknowledge to the examina Regulations, Se  I hereby claim of any foreign also identified	ication, including the claims, as amended by any amendment related to disclose information of which I am aware which is mail ion of this application in accordance with Title 37, Code of F	ferred  iterial ederal  on 119 i have
identified specto above.  I acknowledge to the examina Regulations, Se  I hereby claim of any foreign also identified	ication, including the claims, as amended by any amendment related to disclose information of which I am aware which is maked to this application in accordance with Title 37, Code of Fition 1.56(a).  The oreign priority benefits under Title 35, United States Code, Section polication(s) for patent or inventor's certificate listed below and foreign application for patent or inventor's certificate fore that of the application on which priority is claimed:	sterial ederal on 119 i have having
identified specto above.  I acknowledge to the examina Regulations, Se  I hereby claim of any foreign also identified a filing date b	ication, including the claims, as amended by any amendment relief to disclose information of which I am aware which is major of this application in accordance with Title 37, Code of Fition 1.56(a).  Oreign priority benefits under Title 35, United States Code, Section pplication(s) for patent or inventor's certificate listed below any foreign application for patent or inventor's certificate before that of the application on which priority is claimed:  Opplication(s)  Priority Claimed:	sterial ederal on 119 in have having

Status

pending

Application Serial No.

PCT/US94/00757

I hereby claim the benefit under Title 35. United States Code. Section 120 of any United States Application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations. Sections 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Filing Date

January 21, 1994

08/099,268	January 22, 19	93 <u>abando</u>	ned
And I hereby appoint  John P. White (Reg. No.)  Norman H. Zivin (Reg. 25,161); Christopher C.	28,678); Thomas No. 25,385); 1	F. Moran (Re	g. No. 16,579); ukov (Reg. No.
(Reg. No. 30,616); Rob Phillips (Reg. No. 29,6 Marthew J. Golden (Reg.	ert D. Katz (F 91); Richard S No. 35.161); Al	Reg. No. <u>30,</u> . Milner (Reg .bert Wai-Kit	141); Peter J. J. No. 33,970); Chan (Reg. No.
36,479); Kristina L. Kon (Reg. No. 38,232); and	stas (Reg. No. Lewis J. Kreisl	37,864); Robe er (Reg. No.	rt T. Maldonado <u>38,522),</u>
and each of them, all c/o cooper & 10036, Tel. (212) 278-0400, my at to prosecute this application to mate transact all business in the Pair	torneys, each with ful ake alterations and an tent and Trademark (	l power of substituendments therein, Office connected t	ution and revocation. to receive the patent. herewith and to file
any International Applications whe Cooperation Treaty.	hich are based thereo	n under the prov	isions of the Patent
Cooperation Treaty.  Please address all communications	and direct all teleph	one calls, regarding	g this application to
Tohn P. White Cooper & Dunham LLP 1185 Avenue of the Amer New York, New York 100 Tel (212) 278-0400	036	Reg. No	
I hereby declare that all statement statements made on information statements were made with the kingre punishable by fine or imprison States Code and that such will application or any patent issued the	and belief are believ nowledge that willful nment, or both, under Iful false statements	ed to be true; an false statements a Section 1001 of T	d further that these nd the like so made itle 18 of the United
Full name of sole or first joint inventor Philip Ord	dway Livingston /	,JO	
Inventor's signature fully	myston		
Citizenship United States	D	ate of signature	8/24/95
Residence 156 E 79th Street	et, New York, NY l	0021 NY	
Post Office Address same as re	esidence address		

Full name of joint inventor (if any) Friedhelm He	lling 2-00
Inventor's signature Filed	helm Kelly
Citizenship Germany	Date of signature 8/17/9.
Residence 504 E 63rd Street,	Apt 25N, New York, NY 10021
Post Office Address same as re	esidence address
Full name of joint inventor (if any)	
Inventor's signature	
Citizenship	Date of signature
Residence	
Post Office Address	
	· ·
Full name of joint inventor (if any)	
Inventor's signature	
Citizenship	Date of signature
Desidence.	

Applicant or Patentee: ip O. Livingston and Friednel   ling Attorney's JPW/AKC   Serial or Patent No.: 08/196,154   Docket No.: Docket No.
Filed or Issued: July 21, 1995  Title of Invention or Patent: GANGLIOSIDE KLH CONJUGATE VACCINE PLUS QS-21
VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f) AND §1.27(c) - SMALL BUSINESS CONCERN
I hereby declare that I am:
the owner of the small business concern identified below.
an official of the small business concern empowered to act on behalf of the concern identified below:
Name of Concern: Progenics Pharmaceuticals, Inc.
Address of Concern: . 777 Old Saw Mill River Road
Tarrytown, New York 10591
\$1.9(d), for purposes of paying reduced fees under 35 U.S.C. \$41(a) and \$41(b), in that the number of employees of the concern, including those of its affiliates, does not exceed five hundred (500) persons. For purposes of this verified statement, the number of employees of the business concern is the average number, over the previous fiscal year, of the persons employed by the business concern on a full-time, part-time, or temporary basis during each pay period of the fiscal year, and concerns are affiliates of each other when, either directly or indirectly, one concern controls or has power to control the other, or a third party or parties controls or has power to control both.  I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled
GANGLIOSIDE KLH CONJUGATE VACCINE PLUS QS-21 described in:
the specification filed herewith  x application serial no.08/196,154 filed July 21, 1995  patent no. issued
If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 C.F.R. \$1.9(c)*, any concern which could not qualify as a small business concern under 37 C.F.R. \$1.9(d)* or as a nonprofit organization under 37 C.F.R. \$1.9(e)*.
Name: Sloan-Kettering Institute for Cancer Research  Address: 1275 York Avenue, New York, NY 1002!
Individual Small Business ConcernX Nonprofit Organization

<sup>a</sup>NOTE: Separate verified statements are required for each named person, concern, or organization having rights to the invention averring to their status as small

- (c) An independent inventor as used in this chapter means any inventor who (1) has not assigned, granted, conveyed, or licensed, and (2) is under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not likewise be classified as an independent inventor if that person had made the invention, or to any concern which would not qualify as a small business concern or a nonprofit organization under this section.
- (d) A small business concern as used in this chapter means any business concern as defined by the Small Business Administration in 13 C.F.R. §121.3-18, published on September 30, 1982 at 47 FR 43273. For the convenience of the users of these regulations, that definition states:
- §121.3-18 Definition of small business for paying reduced patent fees under Title 35, U.S. Code.
- (a) Pursuant to Pub. L. 97-247, a small business concern for purposes of paying reduced fees under 35 U.S. Code 41(a) and (b) to the Patent and Trademark Office means any business concern (1) whose number of employees, including those of its affiliates, does not exceed 500 persons and (2) which has not assigned, granted, conveyed, or licensed, and is under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor if that person had made the invention, or to any concern which would not qualify as a small business concern or a nonprofit organization under this section. For the purpose of this section concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both. The number of employees of the business concern is the average over the fiscal year of the the persons employed during each of the pay periods of the Employees are those persons employed on a full-time, part-time or temporary basis during the previous fiscal year of the concern.
- (b) If the Patent and Trademark Office determines that a concern is not eligible as a small business concern within this section, the concern shall have a right to appeal that determination to the Small Business Administration. The Patent and Trademark Office shall transmit its written decision and the pertinent size determination file to the SBA in the event of such adverse determination and size appeal. Such appeals by concerns should be submitted to the SBA at 1441 L Street, NW., Washington, D.C. 20416 (Attention: SBA Office of General Counsel). The appeal should state the basis upon which it is claimed that the Patent and Trademark Office initial size determination on the concern was in error; and the facts and arguments supporting the concern's claimed status as a small business concern under this section.
- (e) A nonprofit organization as used in this chapter means (1) a university or other institution of higher education located in any country; (2) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)(3)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)); (3) any nonprofit scientific or educational organization qualified under a nonprofit organization statute of a state of this country (35 U.S.C. 201(i)); or (4) any nonprofit organization located in a foreign country which would qualify as a nonprofit organization under paragraphs (e)(2) or (3) of this section if it were located in this country.

I acknowledg the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the tim of paying, the earliest of the issue entity is no longer appropriate.

37 C.F.R. §1.28(b)\*

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C> §1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Paul J. Maddon
Title In Organization: Chairman, Scientific Director & CEO
7// Old Saw Mill River Road
Signature: Vaul A. M. a. A. O. O. New York 10591
Date of Signature: 11/2)95

37 C.F.R. §1.28(b)

(b) Once status as a small ntity has been established in an application or patent, fees as a small ntity may thereafter be paid in that application or patent without regard to a change in status until the issue fe is due or any maintenance fe is du. Notification of any change in status r sulting in loss of entitlement to small entity status must be filed in the application or patent prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to §1.9 of this part. The notification of change in status may be singed by the applicant, any person authorized to sign on behalf of the assignee, or an attorney or agent of record or acting n a representative capacity pursuant to §1.34(a) of this part.

t	I	1
Ì	î	i
Ţ	;	;
·	,	,
_		ı
٦		
2		•
-	2	•
2	_	
Ē	-	•
ነ	>	,
í	'n	ı
$\succeq$	~	,
L	_	
,		
	•	
↘	?	
C	)	
Ť	)	
_	7	
•	•	

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS UNDER 37 C.F.R. \$1.9(f) AND \$1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:  nisation: Sloan-Kettering Institute for Cancer Research
VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS UNDER 37 C.F.R. \$1.9(f) AND \$1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f) AND §1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f) AND §1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f) AND §1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f) AND §1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
AND §1.27(d) - NONPROFIT ORGANIZATION  lare that I am an official empowered to act on behalf of the nonprofit identified below:
lare that I am an official empowered to act on behalf of the nonproficientified below:
identified below:
identified below:
nigation: Closp Vottoming Tarakh
VIOLE RESEARCH RESPARCE
rganization: 1275 York Avenue
New York, New York 10021
NIZATION:
ERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
EXEMPT UNDER INTERNAL REVENUE SERVICE CODE 26 U.S.C. \$\$501(a) and
c)(3)
ROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED
ES OF AMERICA
OF STATE:
TION OF STATUTE:
D QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE 26 U.S.C.
1(a) and 501(c)(3) IF LOCATED IN THE UNITED STATES OF AMERICA
D QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE
HE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA
OF STATE:
OTAM AS AS ASSESSED.
TION OF STATUTE:
TION OF STATUTE:
lare that the nonprofit organization identified above qualifies as
clare that the nonprofit organization identified above qualifies as a ganization as defined in 37 C.P.R. \$1.9(e)* for purposes of paying under 35 U.S.C. \$41(a) and 41(b), with regard to the invention entitled

described in:

the specification filed herewith

X application serial no. 08/196,154 filed July 21, 1995

patent no. issued

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive each individual, concern, or organization known to have rights to the invention is listed below and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 C.F.R. §1.9(d)\* or a nonprofit organization under 37 C.F.R. 1.9(e)\*

NOTE: Separate verified statements are required from each person, concern, or organization having rights to the invention averring t their status as small entities. 37 C.P.R. §1.27.

Name: Progenics Pharmaceuticals, Inc.

- (d) A small business concern as used in this chapter means any business concern as defined by the Small Business Administration in 13 C.F.R. \$121.3-18, published on September 30, 1982 at 47 FR 43273. For the convenience of the users of these regulations, that definition states:
- \$121.3-18 Definition of small business for paying reduced patent fees under Title 35, U.S. Code.
- (a) Pursuant to Pub. L. 97-247, a small business concern for purposes of paying reduced fees under 35 U.S. Code 41(a) and (b) to the Patent and Trademark Office means any business concern (1) whose number of employees, including those of its affiliates, does not exceed 500 persons and (2) which has not assigned, granted, conveyed, or licensed, and is under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could n t be classified as an independent inventor if that person had made the invention, or t any concern which would not qualify as a small business concern or a nonprofit organization under this section. For the purpose of this section concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both. The number of employees of the business concern is the average over the fiscal year of the the persons employed during each of the pay periods of the fiscal year. Employees are those persons employed on a full-time, part-time or temporary basis during the previous fiscal year of the concern.
- (b) If the Patent and Trademark Office determines that a concern is not eligible as a small business concern within this section, the concern shall have a right to appeal that determination to the Small Business Administration. The Patent and Trademark Office shall transmit its written decision and the pertinent size determination file to the SBA in the event of such adverse determination and size appeal. Such appeals by concerns should be submitted to the SBA at 1441 L Street, M., Washington, D.C. 20416 (Attention: SBA Office of General Counsel). The appeal should state the basis upon which it is claimed that the Patent and Trademark Office initial size determination on the concern was in error; and the facts and arguments supporting the concern's claimed status as a small business concern under this section.
- (e) A nonprofit organization as used in this chapter means (1) a university or other institution of higher education located in any country; (2) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)(3)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. -501(a)); (3) any nonprofit scientific or educational organization qualified under a nonprofit organization statute of a state of this country (35 U.S.C. 201(i); or (4) any nonprofit organization located in a foreign country which would qualify as a nonprofit organization under paragraphs (e)(2) or (3) of this section if it were located in this country.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. 37 C.F.R. \$1.28(b)\*.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. \$1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing:	James S. Quirk
Title In Organization: _	Senior Vice President, Research Resources Management
Address:	1275 York Avenue
	New York, New York 10021
Signature: 13 Million	hard
Date Of Signature:	11/195
<b>—</b> ——	

## BEST AVAILABLE COPY

08/196,154

## 13 Rec'd PCT/PTO 16 NOV 1995

37 C.F.R. \$1.28(b)

(b) Once status as a small entity has been established in an application or patent; fees as a small entity may thereafter be paid in that application or patent without regard to a change in status until the issue fee is due or any maintenance fee is due. Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application or patent prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to \$1.9 of this part. The notification of change in status may be signed by the applicant, any person authorized to sign on behalf of the assignee, or an attorney or agent of record or acting in a representative capacity pursuant to \$1.34(a) of this part.